2009

College of Pharmacy Entry Level 2009

Nova Southeastern University

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Nova Southeastern University, synonymous with dynamic innovation and intellectual challenge, is the largest independent not-for-profit university in the Southeast, and with an enrollment of more than 27,000 students, is the **sixth largest** in the United States. Situated on a beautiful, 300-acre campus in Fort Lauderdale, Florida, the university is experiencing a sustained period of academic growth, fiscal strength, and commitment to the challenges of the 21st century.

In this environment of expansion and stability, the university is capitalizing on its strengths in such areas as academic innovation, comprehensive clinical training, and flexible educational delivery systems.

Founded in 1964 as Nova University, the institution merged with Southeastern University of the Health Sciences in 1994, creating Nova Southeastern University. To date, the institution has approximately **98,000 alumni**. Fully accredited by the Commission on Colleges of the Southern Association of Colleges and Schools, the university awards associate's, bachelor's, master's, educational specialist, and doctoral degrees in a wide range of fields including the health professions, law, business, marine sciences, psychology, social sciences, computer and information sciences, and education.

The university’s programs are administered through **15 academic centers** that offer courses at the main campus and at field-based locations throughout Florida; across the nation; and at selected international sites in Europe, Mexico, the Pacific Rim, Central and South America, and the Caribbean.

With a budget of more than $220 million per year and an upward trend in enrollment, the university will continue to maintain a solid record of academic and fiscal strength and excellence in teaching and community service, while expanding its mission in research and scholarship.
As a student in the Health Professions Division of Nova Southeastern University, you can anticipate a remarkable experience. You will train, study, interact, and share faculty and resources (either campus-based or online) with students from various backgrounds and disciplines. This interdisciplinary approach distinguishes the Health Professions Division as unique and will better prepare you to master your discipline with a sensitivity and understanding of the entire health care system.

The Health Professions Division, with a student body of more than 2,500, is home to six colleges. The College of Osteopathic Medicine, the first one in the southeastern United States, grants the doctor of osteopathic medicine (D.O.) degree. The College of Osteopathic Medicine also awards the master of public health (M.P.H.) and the master of science in biomedical informatics (M.S.BI) degrees. The College of Pharmacy offers the doctor of pharmacy (Pharm.D.) degree to entry-level, international, and postbaccalaureate students. The College of Optometry is the only institution in the state of Florida that awards the doctor of optometry (O.D.) degree as well as the master in clinical vision research (M.S.). The College of Allied Health and Nursing offers an entry-level bachelor of science degree in nursing (B.S.N.), as well as an R.N. to B.S.N. program, a master of science in nursing (M.S.N.) degree, a post-M.S.N. certificate, and a Ph.D. in nursing education. The college offers a physician assistant program that awards the master of medical science (M.M.S.) degree in physician assistant, as well as a master of occupational therapy (M.O.T.) degree and the entry-level doctor of physical therapy (D.P.T.) degree. Doctoral programs are offered in occupational therapy (Ph.D./O.T., Dr.OT), physical therapy (Ph.D./P.T., D.P.T.), and audiology (Au.D.). In addition to these programs, the College of Allied Health and Nursing offers the bachelor of health science (B.H.Sc.), master of health science (M.H.Sc.), and doctor of health science (D.H.Sc.) degrees—open to midlevel clinicians and allied health professionals. There are also courses of study in bachelor of health science—vascular sonography and master of health science—anesthesiologist assistant. The College of Medical Sciences grants the master of biomedical sciences (M.B.S.) degree. In the fall of 1997, the College of Dental Medicine admitted its charter class into the doctor of dental medicine (D.M.D.) program. Now, the college also offers a master of science in dentistry (M.Sc.D.) degree, as well as postgraduate programs in endodontics, oral surgery, orthodontics, pediatric dentistry, periodontics, and prosthodontics.

The Health Professions Division occupies a $70 million complex, covering 21 acres of the university campus. The division includes eight buildings totaling more than 900,000 square feet of space for classrooms, laboratories, offices, the Health Professions Division Library, an outpatient health center, and a pharmaceutical care center. The adjacent 1,500-vehicle parking garage overlooks the Miami Dolphins Training Camp.
letter from the chancellor

If you wish to be a leader in the health professions, Nova Southeastern University can help you reach your potential.

In less than two decades, NSU’s Health Professions Division has developed into a multidisciplinary academic health center of international stature. Composed of the Colleges of Osteopathic Medicine, Pharmacy, Dental Medicine, Optometry, Allied Health and Nursing, and Medical Sciences, the Health Professions Division has redoubled its commitment to academic excellence, innovation, and community service, while expanding its mission in research and scholarship. Working together, our distinguished faculty members prepare students for an exciting career on tomorrow’s dynamic health care team.

Fred Lippman, R.Ph., Ed.D.
Chancellor
The most visible pharmacy practice is in the nation's 55,000 independent and chain pharmacies, yet this accounts for only about half of the 225,000 people employed in the profession. Many work at hospitals as directors, staff members, and clinical specialist pharmacists. Pharmacists can become specialists in several areas of patient care through postgraduate training. Consultant pharmacists provide services to nursing homes and home health care patients.

Pharmacists are employed as researchers in universities and in the pharmaceutical and biotechnology industries. They are also engaged in the production and quality control of pharmaceutical products. Others are employed by the industry as medical liaisons. Pharmacists also fill vital administrative and regulatory roles in government.

The professional responsibilities of pharmacists are expanding rapidly to meet the demands of a dynamic health care system. Prospective drug use review and the offering of consultation services are now mandatory in all states. Through the provision of pharmaceutical care, an increasing number of pharmacists are involved with disease state management. As pharmacists move more directly into patient care, the technical functions of prescription dispensing are being carried out by technicians and technology, but the ultimate responsibility for what takes place at the drug-patient interface remains with the pharmacist.

WEST PALM BEACH PROGRAM AND PONCE, PUERTO RICO PROGRAM

Nova Southeastern University's College of Pharmacy admitted its first class in 1987, becoming the first college of Pharmacy in south Florida. In fall 2000, the NSU College of Pharmacy opened a West Palm Beach Program at I-95 and PGA Boulevard. In fall 2001, it opened a full-time program on the campus of Pontifical Catholic University in Ponce, Puerto Rico. The only distinction between the Fort Lauderdale campus-based degree program and the distance site programs is geography. Each location has a team of site coordinators, as well as its own administration, faculty, and staff. Interactive video technology and videoconferencing are used to provide lectures between sites simultaneously. This technology provides for live interaction between faculty members and students regardless of location. Identical handouts, texts, and tests are used. Communication is available through telephone, fax, and email, just as with Fort Lauderdale-based students. All students have access to the Health Professions Division Library, computer labs, online learning resources, and the vast technological innovations provided by NSU, which has been a leader in distance education programs for many years.
As you pursue a career in pharmacy, I welcome you to explore the dynamic, challenging, invigorating, and rewarding experience of obtaining a pharmacy education at the Nova Southeastern University College of Pharmacy (NSU-COP). As you have undoubtedly read or heard through the media, health care is a hot field and pharmacy is at the top of that list. Clinically trained pharmacists are in high demand, and the need greatly outweighs the number of qualified candidates. At NSU-COP, we strive to address these needs by providing highly trained graduates who are committed to the well-being of their patients.

The NSU-COP achievements continue to be significant. Our strong curriculum provides our students with the necessary competencies to meet the challenges of tomorrow's health care environment. We strive to establish ourselves as a leader in pharmacy education, at both the professional and graduate levels, by continually improving our educational programs, increasing our research involvement, and strengthening our service commitment. The COP, with its well-established entry-level doctor of pharmacy (Pharm.D.) degree program in three locations (Davie and West Palm Beach, Florida, and Ponce, Puerto Rico), continues to excel. This is evidenced by our outstanding board passing rate with scores that generally exceed state and national averages. Our outstanding international and postbaccalaureate Pharm.D. programs also shine as they respond to the needs of our alumni and international community.

Many elements contribute to our students' success. The mix of young, enthusiastic faculty members with more seasoned faculty members with specialized training brings diversity to our teaching staff. Our faculty members believe in an open-door policy, in caring about each student, and in a commitment to addressing the health care needs of our communities. The dedication of our faculty members, our cutting-edge curriculum, and our support of international education all contribute to a well-rounded professional pharmacist by the end of the four years of training. Furthermore, the outstanding facilities of NSU-COP, the advanced technological support, and the approximately 300 practice sites available to our students provide an educational environment that is far-reaching. It is among the best in the country.

As dean of NSU-COP, I am truly proud of our past accomplishments, and I am greatly committed to the continued growth of the program. I believe that, if you are looking for a pharmacy program that will provide you with the training and education you need to succeed in the health care world of tomorrow, as well as a sense of fulfillment in your chosen profession, the College of Pharmacy at Nova Southeastern University is the right choice for you.

Andrés Malavé, B.S.Ph., M.S., Ph.D.
Dean
PHARMACY INFORMATION HIGHLIGHTS

Since admitting its charter class in 1987, the NSU College of Pharmacy (NSU-COP) has

- graduated over 2,000 pharmacists
- led the nation in the level of enrollment of Hispanic doctoral pharmacy students
- developed a postgraduate doctor of pharmacy (Pharm.D.) program for bachelor-level pharmacists seeking to advance professionally

The program, using interactive video, enrolls practicing pharmacists throughout the state of Florida and Puerto Rico who can't interrupt their careers or relocate to a college campus. More than 300 professionals have graduated from this innovative and flexible program.

- developed pharmacy residency programs in general pharmacy practice, ambulatory care, community pharmacy, and psychiatry
- developed three Drug Information Centers—located in Davie, West Palm Beach, and Ponce—that provide area health care providers with current information on pharmaceuticals
- brought the latest American pharmaceutical education to leading institutions of higher learning in Latin America

This program features faculty exchanges, collaboration on research projects, and seminars on advances in patient-oriented pharmacy.

- developed two ambulatory care pharmacies for innovative teaching and testing of pharmacists' expanding roles
- created a medicinal garden to serve as a repository for living medicinal plants for treating human illness and maintaining health and to teach students the properties and roles of these plants
- developed an international program
- initiated a doctor of pharmacy and master of business administration (Pharm.D./M.B.A.) dual-degree program
- implemented a study-abroad program
- provided quality pharmacy continuing education programs
- initiated a doctor of philosophy (Ph.D.) program

Students are provisionally admitted to a degree-seeking program based on a review of unofficial transcripts or other specific program admission requirements. However, this admission includes a condition that final and official transcripts, documents, and requirements must be received within 90 calendar days from matriculation. If these final and official transcripts, documents, and/or requirements are not received by that time, the student will not be allowed to continue class attendance. Financial aid will not be disbursed to a provisional/conditional student until he or she has been fully admitted as a regular student (all admissions requirements have been approved by the college/program admissions office). Students who have an unpaid balance 30 days from the start of the term will be assessed a $50 fee.
**COURSE OF STUDY** The doctor of pharmacy degree is awarded after successful completion of four years of professional study in the College of Pharmacy. The curriculum stresses innovative delivery and assessment methods. The curriculum is designed so courses integrate information and build upon one another in order to provide students with the knowledge and skills necessary to be successful in the profession.

The first two years build a foundation in the medical and pharmaceutical sciences. Courses such as Anatomy and Physiology, Biochemistry, and Microbiology develop the necessary background, while Pharmaceutics, Pharmacodynamics, Pharmacokinetics, and Non-prescription Therapies provide a strong understanding of the principles of drug therapy. The business, human relation, communication, marketing, and legal aspects of pharmacy and the health care system are also studied.

Third-year courses focus on application of material learned, the use of drugs in the disease process, and developing skills essential to monitoring drug therapy. Students hone their analytical skills with courses in Research Design and Statistics, Pharmacoepidemiology and Pharmacoeconomics, and Drug Literature Evaluation.

Practice experiences in community, hospital, service learning, and traditional pharmacy settings, which begin in the first semester and continue throughout the student’s course of study, facilitate real-life application of the material and provide opportunities to integrate information learned.

The final year of the Pharm.D. curriculum is composed of full-time experiential education where students practice drug therapy monitoring with more independence. During the final month, all students—including those studying in Puerto Rico—return to the main campus in Fort Lauderdale for updates on new and changing drug therapy, presentations, and board exam preparation. Puerto Rico students should anticipate completion of their advanced practice experiences at sites outside of the commonwealth of Puerto Rico.
# Curriculum Outline

## First Year

### First Semester

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>BCH 5200</td>
<td>Biochemistry</td>
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<td>PHA 4100</td>
<td>Pharmaceutics I</td>
<td>3</td>
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<td>PHA 4120</td>
<td>Pharmacy Calculations</td>
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<td>PHA 4200</td>
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<td>PHA 4580</td>
<td>Early Pharmacy Practice Experience—Service Learning</td>
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<tr>
<td>PHA 5211</td>
<td>Anatomy and Physiology</td>
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**Credits:** 17

### Second Semester

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<td>Pharmacokinetics</td>
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<td>PHA 4550</td>
<td>Drug Information Resources</td>
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<td>PHA 4580</td>
<td>Early Pharmacy Practice Experience—Service Learning</td>
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<tr>
<td>PHA 5221</td>
<td>Anatomy and Physiology II</td>
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**Credits:** 19

## Second Year

### First Semester

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<td>PHA 5100</td>
<td>Clinical Pharmacokinetics</td>
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<td>PHA 5220</td>
<td>Pharmacodynamics III</td>
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<td>PHA 5300</td>
<td>Social and Behavioral Pharmacy</td>
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<td>PHA 5380</td>
<td>Pharmacy Law</td>
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<td>PHA 5580</td>
<td>Early Pharmacy Practice Experience—Community</td>
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**Suggested Electives:** 2

**Credits:** 17

### Second Semester

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<td>PHA 5230</td>
<td>Pharmacodynamics IV</td>
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<tr>
<td>PHA 5330</td>
<td>Communication Skills</td>
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<td>PHA 5580</td>
<td>Early Pharmacy Practice Experience—Community</td>
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<tr>
<td>PHA 5610</td>
<td>Therapeutics/Pathophysiology I</td>
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**Credits:** 17
### third year

**FIRST SEMESTER**
- PHA 6300 Research Design and Statistics 3
- PHA 6440 Pharmacy Management 3
- PHA 6580 Early Pharmacy Practice Experience—Hospital 2
- PHA 6620 Therapeutics/Pathophysiology II 5
- PHA 6710 Patient Care Management I 2
- Suggested Electives 2
- Credits 17

**SECOND SEMESTER**
- PHA 6410 Pharmacoepidemiology and Pharmacoeconomics 3
- PHA 6560 Physical Assessment* 2
- PHA 6610 Drug Literature Evaluation 2
- PHA 6630 Therapeutics/Pathophysiology III 4
- PHA 6680 Early Pharmacy Practice Experience—Pharmacy Service 2
- PHA 6720 Patient Care Management II 1
- Suggested Electives 2
- Credits 16

### fourth year

**FIRST SEMESTER**
- PHA 7620 Advanced Pharmacy Practice Experience—Internal Medicine 4
- PHA 7640 Advanced Pharmacy Practice Experience—Ambulatory Care 4
- PHA 7660 Advanced Pharmacy Practice Experience—Select Community 4
- PHA 7680 Advanced Pharmacy Practice Experience—Select Hospital 4
- Credits 16

**SECOND SEMESTER**
- PHA 7610 Advanced Pharmacy Practice Experience—Elective I 4
- PHA 7630 Advanced Pharmacy Practice Experience—Elective II 4
- PHA 7650 Advanced Pharmacy Practice Experience—Elective III 4
- PHA 7670 Advanced Pharmacy Practice Experience—Elective IV 4
- PHA 7690 Advanced Pharmacy Practice Experience—Elective V 4
- PHA 7800 Eighth Semester 0
- Credits 20

*PHA 6560 taught as an institute, schedule TBA.
The College of Pharmacy selects students based on pre-pharmacy academic performance, Pharmacy College Admission Test (PCAT) scores, personal interviews, written applications, and letters of evaluation.

1. Prior to matriculation, NSU College of Pharmacy applicants must complete a minimum of 62 semester hours of coursework at a regionally accredited college or university, including the following required courses:

   **SEMESTER HOURS**

   - Anatomy and Physiology ....................... 3  
   - General Biology ............................... 3  
   - General Biology/Anatomy and Physiology, including Laboratory ......................... 4  

   Students must have an additional 3 semester hours of either General Biology or Anatomy and Physiology and 1 semester hour of laboratory from either subject for a total of 10 semester hours.

   - General Chemistry, including Laboratory ...... 8  
   - Organic Chemistry, including Laboratory ...... 8  
   - Calculus (for science majors) ................... 3  
   - English ........................................ 6  
   - Statistics (no business statistics) .............. 3  
   - Speech ........................................ 3  
   - Macroeconomics ............................... 3  
   - Microeconomics ................................ 3  
   - Social/Behavioral Sciences/Humanities ........ 15  

   Students must have at least 3 semester hours of Social/Behavioral Sciences and at least 3 semester hours of Humanities. The remaining 9 semester hours can be in either discipline.

2. Students must have a GPA of 2.75 or higher on a 4.0 scale. To assure a well-rounded background for professional studies and adequate preparation in mathematics and sciences, the college requires students to earn a grade of 2.0 or better in each required pre-pharmacy course and a minimum grade of 2.0 in all biology, chemistry, and mathematics courses. We also recommend upper-level science courses in areas such as biochemistry, molecular biology, and cell biology.
Applicants are required to submit official scores from the Pharmacy College Admission Test (PCAT). A national, standardized examination, the PCAT is designed to measure verbal ability, quantitative ability, reading comprehension, and knowledge of biology and chemistry. PCAT scores must be no more than five years old at the time of interview.

Applicants should take the PCAT no later than January prior to the expected date of matriculation. Candidates should schedule pre-pharmacy coursework so they complete biology and some chemistry courses before taking the PCAT.

The half-day test is offered in June, October, and January at locations throughout the United States and Canada, including Tampa, Gainesville, Tallahassee, and at Nova Southeastern University's Health Professions Division. Application brochures for the PCAT may be available at your college. You may register online at www.pcatweb.info or call 800-622-3231 for a brochure. You may also forward a written request to

Pharmacy College Admission Test
The Psychological Corporation
555 Academic Court
San Antonio, Texas 78204

NSU COLLEGE OF PHARMACY

• MISSION STATEMENT: The mission of the NSU College of Pharmacy is to educate professionals who will address the pharmacy-related needs of society. An outstanding curriculum provides students with the knowledge, skills, and attitudes that enable new-era pharmacists to participate in roles essential to the delivery of patient-centered care in a dynamic health care environment, while promoting dedication to lifelong learning. Graduate programs cultivate the research and leadership skills necessary for successful careers in academia, industry, and government agencies. Educational opportunities are provided to a diverse group of students on campus and at distant sites through the use of innovative technology.

• VISION STATEMENT: Through our programs of innovative teaching, service, research, and scholarship, we will achieve the distinction of being a premier college of pharmacy.

• VALUES: Entrepreneurship, excellence, innovation, integrity, professionalism, respect for diversity, service, and teamwork
PRimer APPLICATION PROCESS FOR
FORT LAUDERDALE AND WEST PALM BEACH

The college participates in the Pharmacy College Application Service (PharmCAS) for the receipt and processing of all applications. PharmCAS takes no part in the selection of students.

Applicants may submit applications electronically through PharmCAS Online, an interactive Web-based application that can be accessed through www.PharmCAS.org. Applicants choosing to submit a paper application may contact PharmCAS directly for an application packet at

PharmCAS
19 Main Street
Watertown, Massachusetts 02472
(617) 612-2050

Listed below are the steps necessary to complete the primary application process.

The applicant should submit the following materials to PharmCAS:

• a completed PharmCAS application

• an official transcript from the registrars of all colleges and universities attended (This must be mailed directly to PharmCAS by the college or university.)

• a letter of evaluation from the pre-professional committee, (if such a committee does not exist, letters of evaluation from two science professors and a liberal arts professor are necessary)

• a letter of evaluation from a pharmacist is highly recommended and may substitute for a letter from a professor

• PCAT scores that are no more than five years old

The PharmCAS application process takes four–six weeks.

The deadline for submitting a PharmCAS application for NSU-COP is January 4.

SECONDARY APPLICATION PROCESS

In addition to completing the PharmCAS application, Nova Southeastern University requires the completion of a secondary application. Upon receipt of the PharmCAS Application, NSU-COP will forward a secondary application.
Listed below are the steps necessary to complete the secondary application process.

The applicant should submit the following materials to Nova Southeastern University:

- a completed secondary application
- a nonrefundable application fee of $50

The deadline date for submitting the secondary application for NSU-COP is March 1.

All admission materials sent to Nova Southeastern University should be sent to

NOVA SOUTHEASTERN UNIVERSITY
Enrollment Processing Services (EPS)
College of Pharmacy
Office of Admissions
3301 College Avenue
P.O. Box 299000
Fort Lauderdale, Florida 33329-9905

PONCE, PUERTO RICO APPLICANTS

For application information for the Ponce site, applicants must contact the Office of Student Affairs in Ponce, Puerto Rico, by calling (787) 841-2000, ext. 2431, or emailing pwendy@nsu.nova.edu.

**INTERVIEW PROCESS**

Upon receipt of the completed application and the required credentials, the committee on admissions will select applicants for interview. Those selected will be notified in writing of the time and place. All applicants who are admitted by the college must be interviewed, but an invitation to appear for an interview should not be construed as evidence of acceptance.

**NOTICE OF ACCEPTANCE**

Notice of acceptance or other action by the committee on admissions will be on a "rolling" or periodic schedule.

Early completion of the application process is in the best interest of the applicant.

**TRANSCRIPTS**

After acceptance, final and official transcripts from all colleges and universities attended, and/or final and official documents must be received within 90 calendar days from the start of the term. If these final and official transcripts and/or documents are not received by that time, the student will not be allowed to continue class attendance. In addition, financial aid will not be disbursed to a student until he or she provides all the necessary documents required to be fully admitted as a regular student.
A VARIETY OF ORGANIZATIONS IN WHICH STUDENTS CAN PARTICIPATE ARE AVAILABLE.

HEALTH PROFESSIONS DIVISION
STUDENT GOVERNMENT

The Health Professions Division Student Government is recognized by HPD administration as the official student voice on all university issues. The student members of the organization are the president and vice president of each of the college's student councils.

COLLEGE OF PHARMACY STUDENT COUNCIL

Student council is the official voice for all pharmacy students. The organization is open to all students and welcomes proposals and participation from the entire student body. The responsibilities of student council include collecting and expressing student opinion, dispensing funds for student activities, acting as a liaison for the student body, promoting pharmacy, supporting club and class activities, and working to improve the quality of life for all students at the College of Pharmacy.

Four voting representatives are elected from each class. In the spring of each year, student council officers—president, vice president, secretary, and treasurer—are nominated from this pool of representatives.

ACADEMY OF MANAGED CARE PHARMACY

In 1997, NSU students formed the nation's third student chapter of the Academy of Managed Care Pharmacy (AMCP). The organization is largely concerned with the administrative and patient care issues of individuals enrolled in HMOs, PPOs, etc. Members receive AMCP periodicals and other educational materials, attend national meetings, visit practice sites, shadow practitioners, and have speaker/discussion meetings on managed care topics.

ACADEMY OF STUDENTS OF PHARMACY

The Academy of Students of Pharmacy (ASP) of the American Pharmacists Association is the student branch of America's largest and oldest association of pharmacists, the American Pharmacists Association (APhA). This pharmacy organization is also the only one that represents all practice settings, and at present, has more than 10,000 student members attending the 83 schools and colleges of pharmacy across the country.
The ASP has representation within the organization and has its own standing committees on education programs, publications, awards, and policy. Each member of ASP also receives the full benefits of membership in APhA, and through periodic publications and meetings, can keep up-to-date on the developments and events that affect the practice of pharmacy. At the local level, student members can participate in service projects that benefit the college and the community, as well as social activities that foster school spirit. Any pharmacy student can be a member of ASP and still be eligible for participation in any other campus organization.

**AMERICAN ASSOCIATION OF PHARMACEUTICAL SCIENTISTS (AAPS)**

The American Association of Pharmaceutical Scientists provides a dynamic international forum for the exchange of knowledge among scientists in order to enhance their contributions to health. Scientific programs, ongoing education, opportunities for networking, and professional development are offered to members. AAPS student chapters enable students to increase their awareness of career opportunities in the pharmaceutical sciences; gain access to educational opportunities; take advantage of opportunities for professional advancement; enhance their knowledge of advances and discoveries in the pharmaceutical sciences; and participate in outreach activities at the local, regional, and national levels.

**CHRISTIAN PHARMACIST FELLOWSHIP INTERNATIONAL (CPFI)**

The CPFI is a worldwide, interdenominational ministry of individuals working in all areas of pharmaceutical services and practice. The student chapter's mission is to help students grow spiritually and promote fellowship among pharmacists and students. The advancement of knowledge and ethics in the practice of pharmacy is encouraged.

**FLORIDA SOCIETY OF HEALTH-SYSTEM PHARMACISTS**

The Florida Society of Health-System Pharmacists student chapter participates in “shadowing” programs that allow students to accompany hospital pharmacists through their daily activities, broadening exposure to hospital pharmacies. Members are also involved in community service projects such as Poison Prevention Week and National Pharmacy Week.

**INTERNATIONAL PHARMACEUTICAL STUDENTS FEDERATION (IPSF)**

IPSF encourages students and education providers to work together to prepare tomorrow's pharmacists to work in a rapidly changing global health care environment. The objective of IPSF is to study and promote the interests of pharmaceutical students and to encourage international cooperation among them. Events sponsored by IPSF include an annual congress, a student exchange program, and an international patient counseling event.

**KAPPA PSI**

The Kappa Psi fraternity promotes and maintains a serious atmosphere through its professional programs, and thus supplies an intellectual stimulus essential in pursuing college work in pharmacy. The fraternity also provides social functions, contacts, and the opportunity to develop qualities of leadership for the general growth of members and the profession of pharmacy.

**NATIONAL COMMUNITY PHARMACISTS ASSOCIATION (NCPA)**

NCPA (formerly NARD) provides pharmacy students with the opportunity to interact with successful pharmacy practitioners across the nation in order to build a career in an independent pharmacy setting. Information on how to start your own pharmacy through financing and management is presented, along with strategies on successful retail operations. A matching service that brings together employers and employees and a listing of pharmacies for sale are both provided. Legislative and regulatory developments are supplied to the students.

**PHI DELTA CHI**

The Phi Delta Chi fraternity is an association formed to advance the science of pharmacy and to foster a fraternal spirit among its members. Being a member is a lifelong experience that promotes scholastic, professional, and social growth in order to advance pharmacy. Each member serves the public health and has a goal to be a leader in the profession.
**PHI LAMBDA SIGMA**

The purpose of Phi Lambda Sigma, the national pharmacy leadership society, is to promote the development of leadership qualities in pharmacy, especially among pharmacy students. By peer recognition, the society encourages participation in all pharmacy activities. Membership crosses fraternal and organizational lines, and therefore, the society does not compete with any other organization. Members are selected by peer recognition. No greater honor can be bestowed upon a person than to be recognized as a leader by peers. Such recognition serves to instill self-confidence and to promote greater efforts toward the advancement of pharmacy. Further, peer recognition stimulates the less active student to a more active role.

**RHO CHI**

Rho Chi is the national honor society for pharmacy. Members are selected on the basis of academic excellence—a capacity for achievement in the science and art of pharmacy and the allied sciences. Men and women are chosen on the basis of strength of character, personality, and leadership. They must rank in the highest 20 percent of the class and have obtained a scholastic average equivalent to the second-highest letter grade. They are eligible for election after completing six semesters or nine quarters of scholastic work applicable toward the degree granted by their school of pharmacy. Rho Chi elections therefore take place in either the second year or the third professional year of most pharmacy curricula. The society also provides for graduate student, faculty, alumni, and honorary membership.

**STUDENT NATIONAL PHARMACEUTICAL ASSOCIATION (SNPHA)**

The Student National Pharmaceutical Association (SNPhA) is an educational service association of pharmacy students who are concerned about pharmacy and health care-related issues, as well as the promotion of minority representation in pharmacy and other health-related professions. The purpose of SNPhA is to plan, organize, coordinate, and execute programs geared toward the improvement of the health, educational, and social environment of the community.

**TRANSFER STUDENTS**

Circumstances may warrant that a student enrolled in one pharmacy college seeks to transfer to another institution. Any individual wishing to transfer to Nova Southeastern University College of Pharmacy must

1. make a formal application to the NSU College of Pharmacy Office of Admissions
2. meet admission requirements to NSU College of Pharmacy—including submitting official transcripts of all college work (including pharmacy transcripts)
3. be interviewed
4. be in good standing at the transferring institution, as documented by a letter from the dean of the transferring institution
5. supply a written statement outlining reasons for requesting a transfer

Decisions on transfer applications are made by the dean. The decision will be based on factors that include, but are not limited to, the student's academic record, the circumstances leading to the transfer request, available space, and admission standards.

Students entering the College of Pharmacy with an advanced standing may be given credit for courses applicable to the courses outlined in the curriculum of the College of Pharmacy.

The dean's office will evaluate the courses and determine appropriate credits. The program, however, must be completed in seven calendar years. A minimum of 16 credit hours of didactic coursework and a minimum of five clerkships must be completed at Nova Southeastern University.
foreign coursework

Undergraduate coursework taken at a foreign institution must be evaluated for U.S. institution equivalence. Foreign coursework must be evaluated by one of the services listed below.

- World Education Services, Inc.
  P.O. Box 745
  Old Chelsea Station
  New York, New York 10113-0745
  (212) 966-6311
  www.wes.org

- Josef Silny & Associates, Inc.
  International Education Consultants
  7101 SW 102nd Avenue
  Miami, Florida 33173
  305) 273-1616
  www.jsilny.com

- Educational Credential Evaluators, Inc.
  P.O. Box 514070
  Milwaukee, Wisconsin 53203-3470
  (414) 289-3400
  www.ece.org

It is the applicant's responsibility to have this coursework evaluated. An official course-by-course evaluation must be sent to PharmCAS.
FORT LAUDERDALE, FLORIDA PROGRAM

The Fort Lauderdale program is located in the Health Professions Division Administration Building. Lectures will be presented by interactive video from the Fort Lauderdale campus with faculty on-site to assist students in West Palm Beach, Florida, and Ponce, Puerto Rico. The Fort Lauderdale site is equipped with pharmacy practice, pharmaceutics, pharmacokinetics, and pharmacy administration laboratories, a library, study rooms, computer labs, a drug resource and information center, and a student lounge.

Numerous apartments, condominiums, and other rental facilities are located near campus. Limited on-campus housing is also available. Information concerning on- and off-campus housing may be obtained by contacting

NOVA SOUTHEASTERN UNIVERSITY
Office of Residential Life and Housing
3301 College Avenue
Fort Lauderdale, Florida 33314-7796
(954) 262-7052

WEST PALM BEACH, FLORIDA PROGRAM

The West Palm Beach program is located at Interstate 95 and PGA Boulevard in Palm Beach Gardens, Florida. Lectures will be presented by interactive video from the Fort Lauderdale campus with faculty on-site to assist students in West Palm Beach. The West Palm Beach site is equipped with classrooms, a pharmaceutics laboratory, study rooms, a computer lab, a drug resource and information center, and a student lounge. Palm Beach County is a thriving community, providing students with numerous opportunities for experiential education and clerkships.

For information on housing located near the West Palm Beach facility, please visit our Web site at pharmacy.nova.edu/pharmacy/wpalm/main.html.

PONCE, PUERTO RICO PROGRAM

Through a unique partnership between the College of Pharmacy at Nova Southeastern University and Pontifical Catholic University in Ponce, Puerto Rico, the pharmacy program of NSU will be provided at Pontifical University’s facilities. Lectures will be presented by interactive video from the Fort Lauderdale campus with faculty on-site to
assist students in Ponce, Puerto Rico. All lectures, hand-outs, reading materials, and tests will be in English to prepare students for the national practice of pharmacy. The Ponce site is equipped with two lecture halls, a computer and pharmaceutics laboratory, a Drug Information Center, a patient care management laboratory, student study rooms, and an additional meeting/classroom fully equipped for compressed interactive video.

Since the Pontifical Catholic University of Puerto Rico does not have sufficient housing facilities on campus for all out-of-town students, some must stay in private boarding houses. A list of registered boarding houses is distributed by the Office of the Vice President for Student Affairs, located on the second floor of the Manuel Gonzalez Pato Student Center. Most of them are located near the university campus and have a family-type atmosphere.

The university assumes no responsibility for the administration or condition of any housing not operated by the university. The rooms at the boarding houses near the university are only recommendations and are not mandatory. Therefore, students must verify that the boarding houses they choose will meet their needs and provide adequate safety conditions.

The university has both a women’s and men’s residence on the Ponce campus. For information or to apply for admission, please contact

RESIDENCE
Pontifical Catholic University of Puerto Rico
2250 Avenue Las Americas, Suite 562
Ponce, Puerto Rico 00731-6382
Office of the Director of Boarding

PONCE, PUERTO RICO MAILING ADDRESS
Nova Southeastern University
Pontifical Catholic University of Puerto Rico
2250 Avenida Las Americas, Suite 607
Ponce, Puerto Rico 00717-0777
Office: (787) 841-2000, ext. 2433
Fax: (787) 841-2000, ext. 2429

PHYSICAL ADDRESS
Aguayo Building, Office 206

expenses and financial aid

Students should anticipate spending approximately $1,000 a year for books, equipment, and supplies, and $14,000 for living expenses for a nine-month academic year.

The primary financial responsibility for a student's education rests with the student and his or her family, but economic circumstances for some families may make it necessary for the student to obtain assistance from other sources.

The purpose of the Student Financial Aid Program at Nova Southeastern University is to help as many qualified students as possible to complete their pharmacy education. Various loans, scholarships, and grants are available to qualified students to help ease the high cost of a health professions education. Approximately 90 percent of College of Pharmacy students receive some form of financial assistance. These financial assistance programs are described in a separate university publication, The NSU Guide to Student Financial Assistance. For a copy or information, contact

NOVA SOUTHEASTERN UNIVERSITY
Office of Student Financial Assistance
3301 College Avenue
Fort Lauderdale, FL 33314-7796
(954) 262-3380 or
800-806-3680

Opportunity for a limited number of part-time work assignments is available. However, the demands of a program of professional study limit the number of hours a student can work.
tuition and fees

**FORT LAUDERDALE AND WEST PALM BEACH, FLORIDA, PROGRAMS**

Anticipated tuition for 2009–2010 (subject to change by the board of trustees without notice): $21,575 per year for Florida residents and $25,640 per year for out-of-state students. A Health Professions Division general access fee of $145 is required each year. An NSU student services fee of $750 is also required annually.

Eligible students must request in-state tuition on the application. For tuition purposes, students’ Florida residency status (in-state or out-of-state) will be determined at initial matriculation and will remain the same throughout the entire enrollment of the student at NSU. Accordingly, tuition will not be adjusted as a result of any change in residency status after initial enrollment registration.

**PONCE, PUERTO RICO PROGRAM**

Anticipated tuition for 2009–2010 (subject to change by the board of trustees without notice): $21,575 per year for Florida and Puerto Rico residents and $25,640 per year for non-Florida and non-Puerto Rico residents. A Health Professions Division general access fee of $145 is required each year. An NSU student services fee of $750 is also required annually.

1. **Acceptance Fee**—$250. This fee is required to reserve the accepted applicant’s place in the entering first-year class. This advance payment will be deducted from the tuition payment due on registration day, but is not refundable in the event of a withdrawal. It is payable within two weeks of an applicant’s acceptance.

2. **Deposit**—$250. This is due February 15, under the same terms as the Acceptance Fee.

3. **Preregistration Fee**—$500. This is due April 15, under the same terms as the Acceptance Fee.

The first semester’s tuition and fees, less the $1,000 previously paid, are due on or before registration day. Tuition for each subsequent semester is due on or before the appropriate registration day. Students will not be permitted to register until their financial obligations have been met. The financial ability of applicants to complete their training at the college is important because of the limited number of positions available in each class. Applicants should have specific plans for financing four years of professional education. This should include tuition, living expenses, books, equipment, and miscellaneous expenses.

Each student is required to carry adequate personal medical and hospital insurance. Students may avail themselves of the hospitalization insurance plan obtainable through the university.